SWALLOW.

A NEW

ALMANACK

for the Year of our

LORD GOD

1691.

Being the third after Biſſextile or Leap-year, and from the Worlds Creation, 5694

Calculated properly for the famous Univerſity and Town of *Cambridge*, where the North-Pole is elevated 52 degr. 12 min. above the Horizon.

And may ſerve indifferently for any other place of this Kingdom.

Omnia falce metit tempus.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the Univerſity, 1691.

The vulgar Notes and moveable Feasts for this Year 1691. in both Accounts, *viz.*

Julian or Englisch.			*Gregorian* or Forreign.	
	1	The Golden Number	1	
	☽	The Dominical Letter	☾	
	11	The Epact	1	
	20	The Cycle of the Sun	20	
Febr.	22	Shrove-sunday	Febr.	25
April	12	Easter-day	April	15
May	21	Ascention-day	May	24
May	31	Whitsunday	June	3
Novem.	29	Advent-sunday	Decemb.	2

The Anatomy of Mans Body.

♈ Aries Head and Face
♉ Taurus Neck and Throat
♊ Gemini Arms and Should.
♋ Cancer Breast and Stomach
♌ Leo Heart and Back
♍ Virgo Bowels and Belly
♎ Libra Reins and Loyns
♏ Scorpio Secret Members
♐ Sagitarius the Thighs
♑ Capricornus the Knees
♒ Aquarius the Legs
♓ Pisces the Feet.

A

A Table of the Terms with their Returns.

Hilary Term begins January 23, and ends February 12, and hath 4 returns, *viz.*

Octab. Hilar.	Jan.	20
Quind. Hilar.	Jan.	27
Craft. Purif.	Febr.	3
Octab. Purif.	Febr.	9

Easter Term begins April 29, ends May 25, and hath 5 returns, *viz.*

Quind. Pasch.	April	27
Tres Pasch.	May	3
Mens. Pasch.	May	11
Quinq. Pasch.	May	18
Craft. Ascen.	May	22

Trinity Term begins June 12, and ends July 1, and hath 4 returns, *viz.*

Craft. Trin.	June	8
Octab. Trin.	June	15
Quind. Trin.	June	22
Tres Trin	June	29

Michaelmas Term begins October 23, and ends November the 28, and hath 6 returns, *viz.*

Tres Mich.	Octob.	20
Mens. Mich.	Octob.	27
Craft. Anim.	Novem.	3
Craft. Mart.	Novem.	12
Octab Mart.	Novem.	18
Quind. Mart.	Novem.	25

Times prohibiting Marriage.

MArriage comes in on the 13 day of January, and at Septuagesima Sunday it is out again untill Low-sunday; at which time it comes in again, and goes not out till Rogation-sunday: thence it is forbidden untill Trinity-sunday, from whence it is unforbidden till Advent-sunday: but then it goes out, and comes not in again till the 13 day of January next following.

Note that the Exchequer openeth 8 days before any Term begins, except the Term of Trinity, in which it openeth but 4 days before.

Full moon the 4 day, 40 min. past 11 in the morning.
Last quarter the 11 day, 55 min. past 6 in the morn.
New moon the 19 day, 8 min. past 10 before noon.
First quarter the 27 day, 10 min. past 7 in the morn.

1	a	Circumcision	21	39	Gem.	9	
2	b	Octab. Steph.	22	40		24	
3	c	Octab John	23	42	Canc.	9	Mild weather
4	d	2 sun. aft. Chr.	24	43		24	for the season.
5	e	Simeon	25	44	Leo	10	
6	f	Epiphany	26	45		25	
7	g	Julian	27	46	Virgo	9	
8	a	Erchard	28	47		24	
9	b	Marcellus	29	49	Libra	8	
10	c	Sun in Aquar.	0	50		21	Frosty with
11	d	1 sun. aft. Epi.	1	51	Scorp.	4	snow or rain.
12	e	Satyrius	2	52		17	
13	f	Hilary Bish.	3	53		29	
14	g	Felix	4	54	Sagit.	11	
15	a	Maurice	5	55		23	
16	b	Marcellus	6	56	Capr.	5	
17	c	Anthony	7	57		17	Very cold
18	d	2 sun. aft. Epi.	8	58		29	frosty wea-
19	e	Wolfian.	9	59	Aquar.	10	ther.
20	f	Octab. Hilar.	11	00		22	
21	g	Agnes	12	1	Pisces	4	
22	a	Vincent	13	2		17	
23	b	Term begins	14	3		29	
24	c	Timothy	15	4	Aries	11	
25	d	Conv. S. Paul	16	4		24	Cold abated
26	e	Policarp.	17	4	Taur.	7	towards the
27	f	Quind. Hilar.	18	6		21	end.
28	g	Valerius	19	7	Gem.	4	
29	a	Carolus	20	8		18	
30	b	K. Ch. 1. Mar.	21	8	Canc.	2	
31	c	Virgilius	22	9		18	

February hath xxviii days.

Full moon the 2 day, 51 min. past 9 at night.
Last quarter the 9 day, 9 min. past 12 at night.
New moon the 18 day, 28 min. past 4 in the morn.
First quarter the 25 day, 39 min. past 5 at night.

M. D.	W. D.	Festival days with terms.	☉ place d.	m.	Moons place.		Inclination of the Air.
1	D	4 after Epiph.	23	25	Leo	3	
2	e	Purification	24	26		18	
3	f	Crast. Purific.	25	27	Virgo	1	Cold with
4	g	Gilbert	26	27		18	snow and frost.
5	a	Agatha	27	28	Libra	2	
6	b	Dorothy	28	28		16	
7	c	Zachary	29	29	Scorp.	0	
8	D	Sun in Pisces	0	♓ 29		13	Very variable
9	e	Octab. Purif.	1	30		25	weather may
10	f	✠ obiit.	2	30	Sagit.	8	now be ex-
11	g	Severin	3	30		20	pected.
12	a	Term ends	4	31	Capr.	2	
13	b	Agabus	5	31		13	
14	c	Valentine	6	31		25	
15	D	Sexagesima	7	32	Aquar.	7	
16	e	Juliana	8	32		19	Good season-
17	f	Polycrop	9	32	Pisces	1	able weather
18	g	Conconida	10	32		13	about this
19	a	Sabine	11	32		26	time.
20	b	Wilbred	12	32	Aries	8	
21	c	Isaias	13	32		21	
22	D	Shrove sunday	14	32	Taur.	4	
23	e	Serenus	15	32		17	Towards the
24	f	S. Matthias	16	32	Gem.	1	end high
25	g	Ash wednesd.	17	32		15	winds with
26	a	Nestor	18	32		28	some frosts.
27	b	Fortune	19	32	Canc.	13	
28	c	Macar.	20	32		27	

March hath xxxi days.

Full moon the 4 day, 25 min past 8 in the morning.
Last quarter the 11 day, 30 min. past 6 at night.
New moon the 19 day, 52 min. past 7 at night.
First quarter 27 day, 36 min. past 1 in the morning.

1	D	a	Quadragesima	21	18	Leo	12	
2	c	b	Simplic.	22	16		26	
3	f	c	Cunigur	23	16	Virgo	11	Tempestuous
4	g	d	Ember week	24	15		26	but not much
5	a	e	Eufebius	25	15	Libra	10	frosty.
6	b	f	Frederick	26	14		24	
7	c	g	Felicitas	27	14	Scorp.	8	
8	D	a	2 sund in Lent	28	14		21	
9	e	b	Prudent	29	13	Sagit.	3	
10	f	c	Sun in Aries	0 ♈	12		16	Some pinching
11	g	d	Cuthbert	1	12		28	frosty morn-
12	a	e	Gregory	2	11	Capr.	10	nings about
13	b	f	Ernulph	3	10		22	this time.
14	c	g	Eutychus	4	10	Aquar.	3	
15	D	a	3 sund. in Lent	5	9		15	
16	e	b	Cyriacus	6	9		28	
17	f	c	Gertrude	7	8	Pisces	10	
18	g	d	Gabriel	8	8		22	Windy and
19	a	e	Joseph	9	7	Aries	4	cold with
20	b	f	Rupert	10	6		18	some wet.
21	c	g	Benedict	11	4	Taur.	1	
22	D	a	Midlent Sund.	12	3		15	
23	e	b	Godeliva	13	2		28	
24	f	c	Nutrinus	14	1	Gem.	11	
25	g	d	Lady day	15	0		24	Cloudy dark
26	a	e	Tuibius	16	59	Canc.	9	weather with
27	b	f	Archibald	16	58		23	wind and rain.
28	c	g	Gideon	17	57	Leo	7	
29	D	a	5 sund. in Lent	18	55		22	
30	e	b	Guido	19	54	Virgo	6	
31	f	c	Balbina	20	53		20	

April hath xxx days.

Full moon the 2 day, 22 min. past 7 at night.
Last quarter the 10 day, 5 min. past 1 in the after noon.
New moon the 18 day, 40 min. past 9 at night.
First quarter the 25 day, 4 min. past 7 at night.

1	g	Conv. M. M.	21	51	Libra	4	
2	a	Mary Egypt	22	50		18	Windy wea-
3	b	Christian	23	49	Scorp.	2	ther but in-
4	c	Ambrose	24	47		16	differently
5	d	Palm Sunday	25	46		29	warm and
6	e	Sixtus	26	44	Sagit.	11	pleasant.
7	f	Eccleſius	27	43		24	
8	g	Dionyſius	28	41	Capr.	6	
9	a	Albinus	29	39		18	
10	b	Good Friday	30	38	Aquar.	0	Very pleaſant
11	c	Leo Pap.	1	36		11	weather with
12	d	Easter day	2	34		23	refreſhing
13	e	Tiburtius	3	33	Piſces	5	ſhowers.
14	f	Olympia	4	31		17	
15	g	Juſtinus	5	29	Aries	0	
16	a	Aniceetus	6	27		13	
17	b	Appollon.	7	25		26	Now expect
18	c	Timothy	8	24	Taur.	10	ſome thunder
19	d	Low Sunday	9	22		23	with haſty
20	e	Sulpitius	10	20	Gem.	7	ſhowers of rain
21	f	Emmanuel	11	18		22	or hail.
22	g	Adelar	12	16	Canc.	6	
23	a	S. George	13	14		20	
24	b	Albertus	14	12	Leo	4	
25	c	S. Mark	15	9		18	Very ſeaſon-
26	d	2 after Easter	16	7	Virgo	2	able weather
27	e	Quind. Paſch.	17	5		16	ends the
28	f	Vitalis	18	3	Libra	0	month.
29	g	Term begins	19	1		14	
30	a	Q. M. 2. born	19	58		27	

May hath xxxi days.

Full moon the 2 day, 12 min past 8 in the morning.
Last quarter the 10 day, 37 min. past 5 in the morn.
New moon the 17 day, 29 min. past 6 at night.
First quarter the 26 day, 50 min. past 9 before noon.
Full moon the 31 day, 54 min. past 7 at night.

1	b	Phil. & Jacob.	20	56	Scorp	11	
2	c	Athanasius	21	54		24	
3	D	3 after Easter	22	51	Sagit	7	Fine tempe-
4	e	Florian	23	49		20	rate and serene
5	f	Gothard	24	47	Capr.	3	Air with
6	g	Joh. Port. L.	25	44		14	gentle gales
7	a	Juvenal	26	42		26	of wind.
8	b	Stanislaus	27	39	Aquar.	8	
9	c	Hiobe	28	37		19	
10	D	4 after Easter	29	35	Pisces	1	
11	e	Sun in Gem.	0	32		13	
12	f	Gordian	1	29		25	Cloudy and
13	g	Servatius	2	27	Aries	8	warm with
14	a	Fortuna	3	24		21	some rain.
15	b	Sophia	4	22	Taur.	4	
16	c	Peregrin	5	19		18	
17	D	Rogation Sun.	6	16	Gem.	2	
18	e	Coing. pasch.	7	14		16	
19	f	Satab	8	11	Canc.	1	Very good
20	g	Bernard	9	8		16	pleasant wea-
21	a	Ascension day	10	6	Leo	0	ther.
22	b	Crast. Ascen.	11	3		15	
23	c	Desider.	12	0		29	
24	D	6 after Easter	12	58	Virgo	13	
25	e	Term ends	13	55		27	
26	f	Edward	14	52	Libra	1	Towards the
27	g	Beda	15	49		24	end tem-
28	a	Monica	16	46	Scorp.	7	pestuous with
29	b	K. Ch. II. Nat.	17	44		20	thunder.
30	c	Wigand	18	41	Sagit.	3	
31	D	Whit-sunday	19	38		15	

June hath xxx days.

Last quarter the 8 day, 46 min. past 10 at night.
New moon the 16 day, 38 min. past 2 in the morn.
First quarter the 22 day, 24 min. past 4 after noon.
Full moon the 30 day, 26 min. past 10 at night.

1	e	Nicomed	20	25	Sagit.	28	
2	f	Marcel	21	32	Capr.	10	Good mode-
3	g	Ember week	22	39		22	rate weather
4	a	Petrocius	23	27	Aquar.	4	begins the
5	b	Boniface	24	24		16	month.
6	c	Artemid.	25	21		28	
7	D	Trinity Sund.	26	18	Pisces	9	
8	e	Crast. Trin.	27	15		21	
9	f	Barnim	28	12	Aries	4	
10	g	Onuphrius	29	9		16	Now inclining
11	a	S. Barnabas	0 ♋	6		29	to heat with
12	b	Term begins	1	3	Taurus	12	black clouds
13	c	Cyrillus	2	0		26	and thunder.
14	D	1 after Trin.	2	57	Gem	10	
15	e	Octab. Trin.	3	55		25	
16	f	Rulandus	4	53	Canc.	10	
17	g	Botolph	5	50		15	
18	a	Homer	6	46	Leo	10	Now we must
19	b	*Corpus Christi*	7	43		25	expect hot
20	c	Regina	8	40	Virgo	9	weather with
21	D	2 after Trin.	9	37		23	hasty showers.
22	e	Quind. Trin.	10	34	Libra	7	
23	f	Basilius	11	31		21	
24	g	S. John Bapt.	12	28	Scorp.	4	
25	a	Elogias	13	25		17	
26	b	Jeremias	14	22		29	Windy and
27	c	7 Sleepers	15	19	Sagit.	12	hot weather
28	D	3 after Trin.	16	16		24	ends the
29	e	S. Pet. & Paul	17	13	Capr.	7	month.
30	f	Com. S Paul	18	10		19	

Last quarter the 8 day, 2 min past 1 in the after noon.
New moon the 15 day, 49 min past 9 at night.
First quarter the 22 day, 43 min. past 1 after noon
Full moon the 30 day, 29 min. past 1 in the after noon.

1	f	Term ends	19	8	Aquar.	0	
2	g	Visit. Mary	20	5		12	
3	a	Cornelius	21	2		24	Good Hay
4	b	Ciricus	21	59	Piſces	6	weather about
5	c	4 after Trin.	22	56		18	this time.
6	d	Hector	23	53	Aries	0	
7	e	5 Holy Mart.	24	50		12	
8	f	Thilian	25	48		25	
9	g	Cyrilus	26	45	Taur.	7	
10	h	7 Brethren	27	42		21	Hot and ſultry
11	i	Pius	28	39	Gem.	4	with ſome
12	k	8 after Trin.	29	36		18	haſty ſhowers
13	l	Sun in Leo	0 ☌	34	Canc.	3	and thunder.
14	m	Bonavent	1	31		18	
15	n	Swithin	2	28	Leo	3	
16	o	Hilarius	3	25		18	
17	p	Alexius	4	23	Virgo	3	
18	q	Marcellus	5	20		18	High winds
19	r	Dog days beg.	6	17	Libra	3	with ſome
20	ſ	Elias	7	14		17	black clouds
21	t	Daniel	8	12	Scorp.	1	if not rain.
22	g	Mary Mag.	9	9		14	
23	a	Apolline B.	10	7		25	
24	b	Chriſtin. faſt	11	4	Sagit.	9	
25	c	S. James Ap.	12	1		21	
26	d	7 after Trin.	12	59	Capr.	3	Very ſeaſon-
27	e	Martha	13	56		15	able weather
28	f	Pantal.	14	54		27	ends the
29	g	Beatrice	15	51	Aquar.	9	month.
30	a	Abdon	16	49		21	
31	b	German B.	17	46	Piſces	3	

Laſt quarter the 7 day, 6 min. paſt 1 in the morn.
New moon the 13 day, 50 min. paſt 4 after noon.
Firſt quarter the 20 day, 22 min. paſt 8 after noon.
Full moon the 28 day, 16 min. paſt 5 after noon.

1	☌	*Lammas day*	18	44	♓ Piſces	15		
2	♋	8 after Trin.	19	42		27		
3	♌	**Dominic**	20	39	♈ Aries	9	Good weather	
4	☾	**Ariſtarch.**	21	37		21	at the begin.	
5	☿	**Oſwald**	22	34	♉ Taur.	4	ing and tem-	
6	♀	Tranſ. Chriſti	23	32		17	perate as to	
7	♂	**Donatus**	24	30	♊ Gem.	0	heat.	
8	♃	**Ladiſlaus**	25	28		13		
9	♍	9 after Trin.	26	28		27		
10	♄	**Laurence**	27	23	♋ Canc.	12		
11	☾	**Tiburt.**	28	21		35		
12	☿	**Clare** Virg.	29	19	♌ Leo	12	Some Winds	
13	♀	Sun in Virgo	0	♍ 17		27	with ſtorms	
14	♂	**Bertram**	1	15	♍ Virgo	12	of hail.	
15	♃	Aſſump. V. M.	2	13		29		
16	♍	10 after Trin	3	11	♎ Libra	12		
17	♄	**Agapitus**	4	9		25		
18	☾	**Helena**	5	7	♏ Scorp.	10		
19	☿	**Sebaldus**	6	5		22	Very hot now	
20	♀	**Bernard**	7	3	♐ Sagit.	6	and tempe-	
21	♂	**Ethnaſius**	8	1		18	ſtuous with	
22	♃	**Symphor.**	8	59	♑ Capr.	0	thunder.	
23	♎	11 after Trin.	9	57		12		
24	☾	S. Bartholom.	10	55		24		
25	☿	**Lewis K.**	11	54	♒ Aquar.	6		
26	♀	**Irenæus**	12	52		18		
27	♂	Dog days end	13	50	♓ Piſces	0	Towards the	
28	♃	**Auſtine**	14	49		12	end hot and	
29	♏	Decol. J. Bapt.	15	47		24	dry.	
30	♎	12 after Trin.	16	45	♈ Aries	6		
31	☾	**Paulinus**	17	44		18		

September hath xxx days.

Laſt quarter the 5 day, at 11 in the forenoon.
New Moon the 11 day, 13 min. paſt 1 in the morning.
First quarter the 19 day, 13 min. paſt 6 in the morn.
Full moon the 27 day, 8 min. paſt 9 in the forenoon.

1	f	Giles Ab.	18	42	Taur.	1	
2	g	Rachel	19	41		14	Indifferently
3	a	Euphem.	20	39		26	hot for the
4	b	Theodosius	21	38	Gem.	10	ſeaſon.
5	c	Zacharie	22	37		23	
6	d	13 after Trin.	23	35	Canc.	7	
7	e	Regina	24	34		21	
8	f	Nat. of Mary	25	33	Leo	6	
9	g	Gorgon	26	32		20	Windy if not
10	a	Sothenes	27	31	Virgo		wet about
11	b	Theobald	28	29		20	this time.
12	c	Tobias	29	28	Libra		
13	d	Sun in Libra	0	27		20	
14	e	Exalt. Crucis	1	26	Scorp.	4	
15	f	Nicomed.	2	25		10	
16	g	Ember week	3	24	Sagit.	1	Now cold
17	a	Lambert	4	23		14	miſty weather
18	b	Ferriolus	5	22		2	may be ex-
19	c	Januarius	6	21	Capr.	5	pected in the
20	d	14 after Trin.	7	20		21	mornings at
21	e	St. Matthew	8	19	Aquar.	3	the leaſt.
22	f	Maurice	9	19		1	
23	g	Eſtius	10	18		21	
24	a	Rupert	11	17	Piſces	8	
25	b	Cleophas	12	16		20	
26	c	Cyprian	13	16	Aries	3	Windy with
27	d	16 after Trin.	14	15		17	rain and ſome-
28	e	Wenceſlaus	15	15		28	thing cold.
29	f	S. Michael	16	14	Taur.	10	
30	g	Jerome	17	14		23	

October hath xxxi days.

Last quarter the 4 day, 42 min. past 6 at night.
New moon the 11 day, 4 min past 1 after noon.
First quarter the 19 day, 9 min past 1 in the morn.
Full moon the 26 day, 29 min past 12 at night.

1	a	Remigius	18	13	Gem.	7	
2	b	Leodegar	19	13		20	
3	c	Simplicius	20	13	Canc	4	Cloudy dark
4	D	17 after Trin.	21	12		17	weather.
5	e	Fides	22	12	Leo	1	
6	f	Aurelia	23	12		15	
7	g	Spes	24	11	Virgo	0	
8	a	Pelagia	25	11		14	
9	b	Dionysius	26	11		29	
10	c	Gideon	27	11	Libra	14	Now more
11	D	18 after Trin.	28	11		26	pleasant and
12	e	Walfride	29	11	Scorp.	12	clear.
13	f	Sun in Scorpio	0	11		26	
14	g	Calixus	1	11	Sagit.	9	
15	a	Hedwig.	2	11		22	
16	b	Gallus	3	11	Capr.	5	
17	c	Florent.	4	11		17	
18	D	S. Luke Evan.	5	11		29	Windy with
19	e	Petolemy	6	12	Aquar.	11	cold rain.
20	f	Tres Mich.	7	12		23	
21	g	Ursula	8	12	Pisces	5	
22	a	Cordula	9	12		17	
23	b	Term begins	10	13		29	
24	c	Salome	11	13	Aries	11	
25	D	20 after Trin	12	13		24	Towards the
26	e	Amandus	13	14	Taur.	6	end inclining
27	f	Mens. Mich.	14	14		20	to frost.
28	g	S. Sim. & Jude	15	15	Gem.	3	
29	a	Narcissus	16	16		17	
30	b	Absolon	17	17	Canc.	0	
31	c	Wolfgang fa.	18	18		14	

November hath xxx days.

Laſt quarter the 3 day, 42 min. paſt 1 in the morning.
New moon the 9 day, 15 min. paſt 12 at night.
Firſt quarter the 17 day, 44 min paſt 9 at night.
Full moon the 25 day, 30 min paſt 2 after noon.

1	D	All Saints	19	17	Cancer	28	
2	e	Omn. Anim.	20	17	Leo	12	
3	f	Craſt Anim.	21	18		26	Not very cold
4	g	K. W. 3. born	22	19	Virgo	11	the ſeaſon
5	a	Powder Plot	23	19		25	conſidered.
6	b	Leonard	24	20	Libra	9	
7	c	Willibald	25	21		23	
8	D	22 after Trin.	26	22	Scorp.	7	
9	e	Theodore	27	22		21	
10	f	Martine P.	28	23	Sagit.	4	Cold increaſes
11	g	Martine Ep.	29	24		17	now.
12	a	Sun in Sagit.	☉	25	Capr.	0	
13	b	Eugenia	1	26		13	
14	c	Frederick	2	27		25	
15	D	23 after Trin.	3	28	Aquar.	6	
16	e	Otmarus	4	29		19	Froſty with
17	f	Hugo	5	30	Piſces	1	ſnow.
18	g	Octab. Mart.	6	31		12	
19	a	Elizabeth	7	32		24	
20	b	Amos	8	33	Aries	6	
21	c	Oblat. Mary	9	34		19	
22	D	24 after Trin.	10	35	Taur.	1	Dark gloomy
23	e	Clemens	11	36		14	weather with
24	f	Chryſogon	12	37		28	wind as alſo
25	g	Quind. Magt.	13	38	Gem.	12	ſome froſt
26	a	Conradus	14	39		25	with cold rain
27	b	Guntherus	15	40	Cancer	10	or ſnow.
28	c	Term ends	16	41		24	
29	D	Advent Sund.	17	42	Leo	9	
30	e	S. Andrew.	18	43		23	

Last quarter the 2 day, 54 min. past 8 in the morn.
New moon the 9 day, 51 min. past 1 after noon.
First quarter the 17 day, 33 min. past 6 at night.
Full moon the 25 day, 9 min past 3 in the morn.
Last quarter the 31 day, 29 min. past 4 after noon.

1	f	Longinus	19	45	Virgo	8		
2	g	Candidus	20	46		22		
3	a	Cassian	21	47	Libra	6	Very good	
4	b	Barbara	22	49		19	seasonable	
5	c	Sabine	23	50	Scorp.	3	weather.	
6		2 sun. in Adv.	24	51		16		
7	d	Agathon	25	52	Sagit.	0		
8	e	Concep. Mary	26	53		13		
9	f	Joachim	27	55		26		
10	g	Militades	28	56	Capr.	8		
11	a	Damasus	29	57		21	Cold raw wet	
12	b	Sun in Capr.	0	♑ 59	Aquar.	3	weather.	
13	c	3 sun. in Adv.	2	0		15		
14	d	Nicasius	3	1		21		
15	e	Abraham	4	2	Pisces	9		
16	f	O Sapientia	5	4		20		
17	g	Ember week	6	5	Aries	2		
18	a	Thistoph.	7	6		14	Frosty and ve-	
19	b	Loth.	8	8		27	ry cold about	
20	c	4 sun. in Adv.	9	9	Taur.	9	this time.	
21	d	S. Thomas	10	10		22		
22	e	Theodore	11	11	Gem.	6		
23	f	Victor	12	13		20		
24	g	Ad. & Eu. fa.	13	14	Canc.	4		
25	a	Christmas day	14	15		19		
26	b	S Stephen	15	17	Leo	4	The Year ends	
27	c	S. John	16	18		18	with season-	
28	d	H. Innocents	17	19	Virgo	3	able weather.	
29	e	Jonathan	18	20		18		
30	f	David	19	22	Libra	2		
31	g	Sylvester	20	23		16		

A Regal Table in a more exact manner.

The Year, Month, and Day, (accounting the Year to begin *Jan.* 1.) whereon every King and Queen of *Eng.* since the Conquest began their reign.				The number of Years, Months, and Days, that every King and Queen reigned since they began to reign: as also 28 da. to a month.							The num. of Y. expired in this Y. since they ended.	
K. W. Conq.		1066	Octob.	14	20	y	11	m	22	d	625	K W Conq.
W. Rufus		1087	Sept	9	12	y	11	m	18	d	604	W. Rufus
Henry	1	1100	Auguſt	1	35	y	4	m	1	d	591	Henry 1
Steven		1135	Decem.	2	18	y	11	m	18	d	556	Steven
Henry	2	1154	Octob.	25	34	y	9	m	2	d	537	Henry 2
Richard	1	1189	July	6	9	y	9	m	0	d	502	Richard 1
John		1199	April	6	17	y	7	m	0	d	492	John
Henry	3	1216	Octob.	19	56	y	1	m	0	d	475	Henry 3
Edward	1	1272	Nov.	16	34	y	8	m	6	d	419	Edward 1
Edward	2	1307	July	7	19	y	7	m	5	d	384	Edward 2
Edward	3	1327	Jan.	25	50	y	5	m	7	d	364	Edward 3
Richard	2	1377	June	21	22	y	3	m	14	d	314	Richard 2
Henry	4	1399	Sept.	29	13	y	6	m	3	d	292	Henry 4
Henry	5	1413	March	20	9	y	5	m	24	d	278	Henry 5
Henry	6	1422	Auguſt	31	38	y	6	m	16	d	269	Henry 6
Edward	4	1461	March	4	22	y	1	m	8	d	230	Edward 4
Edward	5	1483	April	9	0	y	2	m	18	d	208	Edward 5
Richard	3	1483	June	22	2	y	2	m	5	d	208	Richard 3
Henry	7	1485	Auguſt	22	23	y	10	m	24	d	206	Henry 7
Henry	8	1509	April	22	37	y	10	m	2	d	182	Henry 8
Edward	6	1547	Jan.	28	6	y	5	m	19	d	144	Edward 6
Q. Mary		1553	July	6	5	y	4	m	22	d	138	Q. Mary
Q. Elizabeth		1558	Nov.	17	44	y	4	m	15	d	133	Q. Elizabeth
James	1	1603	March	24	22	y	0	m	3	d	88	James 1
Charles	1	1625	March	27	22	y	10	m	3	d	66	Charles 1
Charles	2	1648	Jan.	30	36	y	0	m	0	d	42	Charles 2
James	2	1685	Febr.	6	4	y	0	m	0	d	6	James 2
William	3	1689	Febr.	13	Whom God grant long to Reign.						2	
Mary	2											

The Uſe of the Table in Example.

King *Henry* 8 began his Reign in the Year of *Chriſt* 1509, *April* 22 He Reigned 37 Years, 10 months, and 2 days It is ſince he began his Reign 182 years compleat the 22 of *April* this year 1691. Now to know the time ſince the end of his Reign, before his name ſtanding on the right hand, you ſhall there find 144 Years ſince he died, *Jan.* 28. And ſo of the reſt.

Swallow.

SWALLOW.

The latter part of this

ALMANACK

for the Year of our

LORD GOD

1691.

Being the third after Biſſextile or Leap-year, and from the Conqueſt of *England* by *William* Duke of *Normandy* 625 years.

Wherein is contained an account of the Eclipſes, the time of the Sun's entrance into the four Cardinal Signs, A brief diſcourſe of ſeveral kind of Meteors, Rules with ſeveral Examples for meaſuring of Land, Likewiſe Tables of Weights and Meaſures, A Table of Timber meaſure, with Rules for meaſuring Boards and Timber, and Tables for Purchaſing explained, with other very delightfull things.

Poma dat Autumnus: formoſa eſt meſſibus Æſtas: Ver præbet flores: Igne levatur Hyems.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the Univerſity, 1691.

Of the Eclipſes this Year.

THIS Year there will happen two Eclipſes of the Sun, but none of the Moon will fall in any part of this our Earthly Globe in all this ſolar Revolution: Thoſe of the Sun, are as followeth.

The firſt Eclipſe will be on the 18 Day of *February*, about 5 of the Clock in the Morning; it is celebrated in 10 degrees of *Piſces*. and will be a great Eclipſe in its ſelf; but as to *England* it will be inviſible, the Sun being *ſub terra*.

The ſecond Eclipſe will happen on the 13 day of *Auguſt*, near 6 of the Clock at Night; it is Celebrated in one degree of *Virgo*, and will be viſible to us in *England* if the Air be ſerene: It will be a great Eclipſe, for three fourths of the Sun's body will be obſcured. The envious Planet *Saturn* rules the Horoſcope, and will be in the Ninth Angle in Platick Oppoſition of *Jupiter*: *Mercury* governs the Eclipſe, and *Mars* from *Gemini*, (in Conjunction of the Bulls Eye) caſts an angry Quadrate both at the Eclipſed Sun and him. *Verbum ſat.*

The Suns entrance into the four Cardinal Signs this Year.

HE enters ♈, *March* the 10th day 1 minute paſt noon, and then begins our Spring Quarter.

He enters ♋, *June* the 11th day, 31 minutes paſt 1 in the afternoon, and then begins our Summer Quarter.

He enters ♎, *September* the 13th day, 59 minutes paſt 4 in the morning, and then begins our Autumn.

He enters ♑, *December* the 11th day, 11 minutes paſt 10 at night, and then begins our Winter Quarter.

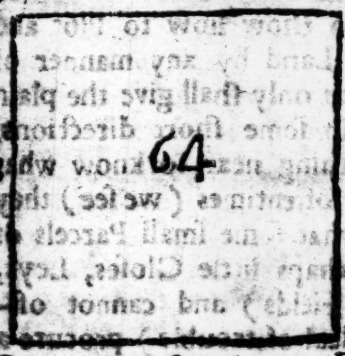
To

To Meaſure Land.

I Do not here intend to ſhow how to Plot and Meaſure all kind of Land by any manner of Inſtrument whatſoever, but only ſhall give the plain and honeſt Countrey Man ſome ſhort directions, how he may come ſomething near to know what his Lands amount to; for oftentimes (we ſee) they have occaſion to know what ſome ſmall Parcels of Ground do contain (perhaps little Cloſes, Leys, or Lands in the open Fields) and cannot oftimes (without a great deal of trouble) procure a Surveyor, and therefore I hope theſe few and plain directions following, will not be thought unneceſſary: But before we enter upon the ſame, let me tell him, he muſt provide a ſhort Chain, or if he cannot conveniently do that, let him take a ſtring, or a Pole of wood, that is ſtreight and ſlender, and divide it into Two Perches, each to contain ſixteen Feet and an half, and every of theſe Perches muſt be divided into Halves and Quarters at the leaſt; which being done, he may then proceed to meaſure his Land as followeth.

Firſt, If Land be juſt Square like unto the following Figure A B C D, then multiply the ſide in it ſelf, and the Product is the ſuperficial capacity. Example, ſuppoſe the ſquare A B C D

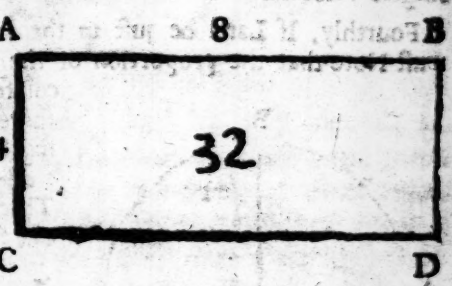
be a piece of Land, and the ſide thereof contain 8 Perches, therefore Multiply 8 into it ſelf, and the Product is 64; and ſo many Perches doth that ſquare Piece of Land contain. But if you cannot Multiply, you may account by your memory, ſaying 8 times 8, which you ſhall find to make 64, as aforeſaid; that is 0 Acr. 1 Rood, and 24 Perches: for 40 Perches make a Rood, 80 half an Acre, 120 Three Roods, and 160 an Acre.



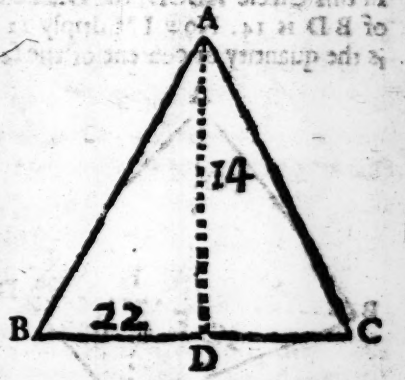
Secondly, If Land lie in the Form of a long Square or Parallelogram, having the oppoſite ſides equal, like the following Figure A B C D, then multiply the longer ſide by the ſhorter and the Product is the content. Example, ſuppoſe the next Figure A B C D be a piece of Land whoſe longer ſide A B (equal to C D) is 8 Perches and the leſſer ſide A C 4 Perches, Now if you Multiply 8 by 4, the Product 32 is the content of this piece of Land in Perches: After this manner may all kind of Lands in the open fields be meaſured, for though the one end be broader then the other;

yet

yet the breadth being taken at the ends, you must add them together and take the half thereof. Example, suppose the length of a Land taken in the field be 44 Perches, the breadth at one end 5, and the breadth at the other end 3 Perches, their Summ 8, the half thereof 4, is the true breadth, then say 4 times 44 is 176, and that is 1 Acr. and 16 Perches for the content of that Land.



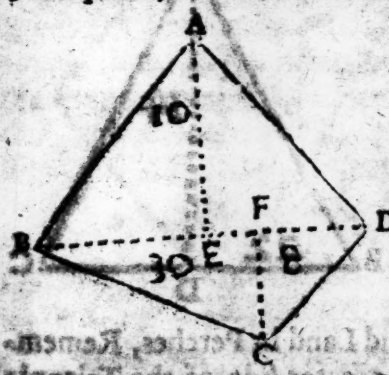
Thirdly, If Land lie in the shape of a Triangle like this Figure, you are to Multiply the Perpendicular by half the Base, and the Product sheweth the content. Example, In this Figure the Base BC is 22 Perches, and the Perpendicular AD 14, which I multiply by the half Base 11, and the Product 154 is the content of the said Land in Perches, Remembring that we call the greater side of the Triangle



the Base, whereon the Perpendicular (coming from the opposite Angle) must fall square-wise, that is making right Angles therewith.

Fourthly, If Land be just in the form of a Circle, you must Note that the proportion of the Diameter to the Circumference is as 7 to 22, therefore the Diameter being known, you may conclude the Compass to be Three times so much, and one Seventh part more. As in this Circle ABCD, the Diameter BD is 14, and therefore the Compass is 44. To measure this piece of Land, Multiply half the Circumference by half the Diameter, and the product is the content. Example,

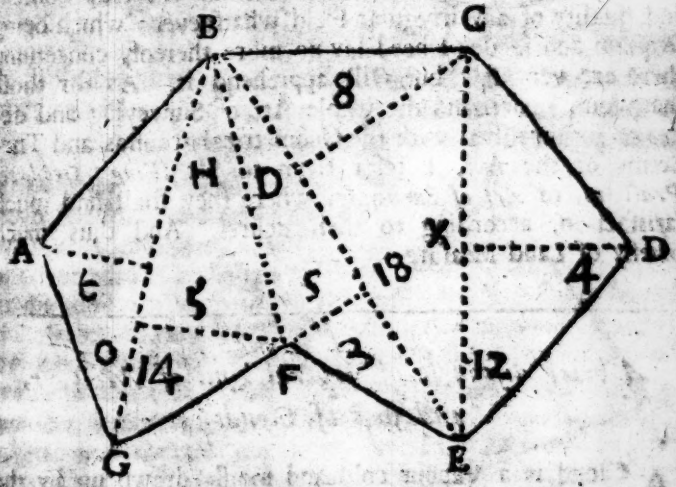
In this Circle ABCD, the Diameter or greatest breadth thereof BD is 14, Now I Multiply 22 by 7, and the Product 154 is the quantity or content of the said piece of Land.



Fifthly, When Land lies in the fashion of this Figure A B C D, which is called a Trapezie; then Multiply the Sum of the Two Perpendiculars, by half the Base, and you shall have the superficial capacity thereof. Example, First I draw the Diagonal-Line B D, and thereon let fall the Perpendiculars A E and C F at Right Angles upon the Base B D,

BD, then I measure AE, and find it 10 Perches, and CF 8, their Summs are 18, which I Multiply by half the Base BD 15. and the Product is 270 Perches; that is 1 Acre, 2 Roods, and 30 Perches for the content of the piece of Land ABCD.

Sixthly, But if Land lie irregular, and be full of Nooks and Corners, then the best way will be to divide it into Trapezies and Triangles upon the Ground, which may be done by setting up little Sticks in a straight Line between corner and corner; as in this irregular Figure noted with the Letters ABCDEFG, where I draw Lines from one Angle to another, BG, BF, BE, CE, and so is the Figure reduced into the Trapezies ABGF, BFEC, and into the Triangle CDE. Then cast up the content of 2 Trapezies, and the Triangle as before is shewed, and their Sum is the content of this irregular Figure.



Example, In the Trapezie ABFG, the Summs of the Perpendiculers AH and FO are 18, and the half of the

Baſe BG 7, which Multiplied together, make 77 for the content of the Trapezie ABFG. Again, in the Trapezie BCEF, the Sums of the Perpendiculars FS and CD are 11, and half the Baſe BE is 9, which Multiplied together make 99 for the content of that Trapezie. Thirdly, In the Triangle CDE, the half Baſe CE 6, Multiplied by DX 4, the Perpendicular maketh 24, the content of the Triangle CDE. Laſtly, Add together the 2 Trapezies and the Triangle, and the Sum is the content of the whole irregular Figure ABCDEFG.

Example, { Trapezies { ABFG 77. / BCEF 99. } / Triangle CDE 24. } Sum 200.

Theſe Three Numbers being added together, make 200 Perches, which is 1 Acre and 1 Rood; and ſo much doth this irregular Figure contain. After this manner may any ordinary Artificer or Tradeſman caſt up the true content and quality of any irregular Field whatſoever; which being ſo plain and facile, I need ſay no more thereof, conceiving there are very few but will apprehend it. As for thoſe that would underſtand the whole Art of Surveying and deſire to be furniſhed with the Geometrical grounds and Theorems of the Art, I refer them to Mr. *Wing*'s *Geodætes Practicus*, or *Art of Surveying*, where they ſhall find much ſatisfaction, according to their deſires. And thus much briefly of Land Meaſure.

A brief diſcourſe of ſeveral kind of Meteors, and firſt of Clouds.

A Cloud is a Vapour cold and moiſt, drawn up by the heat of the Sun into the middle Region of the Air, where being condenſed with cold, they are carried about with

with the Wind, and are often times dispersed by the same. Touching their distance from the Earth, the common opinion is, that they are never above Nine Miles in height; others think they never exceed Three; and many times they ascend not above half a mile from the Earth.

Of Rain.

RAin is nothing else but a Cloud, which (as is said before) is a cold Vapour raised from the Earth and Waters, into the middle Region of the Air, and with the heat either of the Southern Wind, or any other Wind of hot temper, doth dissolve into Water, and so falleth into drops upon the Earth: And here you are to Note, that the great distance of the Clouds from the Earth, and the small heat that dissolves them, causeth small drops; but if it be dissolved with great heat, or else be of small distance from the Earth, then the drops of Rain are the greater, and more vehement. Besides this, there is a prodigious kind of Rain, which hath caused admiration to the Beholders; for sometimes with this natural Rain, there hath fall'n out of the Clouds, Frogs, Fishes, Worms, Fleth, Stones, Wheat, Milk, Wool, Brick, Quick-Silver, and the like, as Histories make mention, and our own experience (in some measure) may inform us of.

Of Lightning.

THere are Four sorts; the first is called *Fulgetrum*, the second *Coruscatio*, the third *Fulgur*, and the fourth *Flumen*; all which shall here be treated of with brevity.

1. *Fulgetrum* is said to be that kind of Lightning which is seen in Summer Evenings after a hot Day, which is generated when many thin and hot Exhalations are by immoderate heat drawn up a little distance from the Earth, where meeting with cold, either of the Night in the lowest Region, or else of the Air in the middle Region, they are

beaten

beaten back, and by the ſlow motion thereof are ſet on fire: This ſort of Lightning is ſeldome hurtfull, yet ſometime when it is ſtriken to the Earth it blaſteth Corn, and ſtrech Thatched Houſes, with other ſmall hurt.

II. *Coruſcatio* is an appearance of Fire or Lightning which may happen Two manner of ways. Firſt, when Clouds that are near the Earth are enflamed, whoſe reflection appear to us like Lightning. Secondly, when Clouds aſcend one above another, and there is a kind of inflammation in the upper part of theſe Clouds, and the Light thereof is perceived through the lower parts as though it Lightned; and this is many times without Thunder.

III. *Fulgur* is a ſort of Lightning that uſually followeth Thunder; for when the violence of the Exhalation beateth againſt the Cloud and breaketh forth, it is ſet on fire, and caſteth a great Light a long way off: Now the reaſon why we hear the Thunder, not ſo ſoon as we ſee the Lightning is becauſe the quickneſs of our ſight, precedes the motion of the ſound to our hearing.

IV. *Fulmen* is a ſort of Lightning, which is moſt violent and hurtfull, which is generated when a hot Exhalation is enclofed within the body of a thick Cloud, out of which when it burſteth forth, it is enflamed, and driven forceably upon the Earth, by which means it hath often done great miſchief; and when this Lightning breaketh forth, it cauſeth the Thunder-Crack to be ſudden and very great, like the report of a Muſket: And becauſe the Exhalation doth for the moſt part conſiſt of much Earthy and Sulphurous matter, it is many times ſo hardned, that being driven to the Earth with great violence, it beateth down Steeples and high Buildings, paſſing through them and ſetting them on fire; It rendeth Trees in pieces, and the ſtronger the thing is that reſiſteth it, the more harm it doth unto it: Many ſtrange effects of this Lightning might here be named, as that it poyſoneth Beaſts that are ſtruck therewith; and if it ſtrike a poyſon'd Beaſt, purgeth it of the infection:

ſo

so also if Lightning strike one that is asleep it openeth his Eyes; and if one that waketh, it shutteth his Eyes: It killeth the Child in the Womb, not hurting the Mother; It melteth Money in the Purse, and not hurt the Purse; It draweth Vessels dry, and hurteth not the Vessel: Sometimes it singeth the hair and garments of Men, not hurting their Bodies: Again, at sometime it striketh a Man dead, and yet maketh no visible wound, nor leaveth any sign of burning. The Eagle and Sea-Calf are never hurt with this kind of Lightning; Wherefore the Poets feign that the Eagle carrieth *Jupiter*'s Armour, which is Lightning. Besides these, there are often seen in the Heavens many strange and prodigious kind of Meteors, as Comets, Fiery Apparitions, Burning Dragons, &c. Which I shall not here enumerate.

Of Snow.

SNow is a Cloud congealed by great cold before it be perfectly resolved from Vapors into Water. The reason why Snow lieth longer on the Hills, then in Valleys, is because their Tops are cold, as being nearer to the middle Region of Air; so that many times it Snows on the Hills, when it Rains in the Vallies.

Of Hail.

HAil cometh of Rain congealed into Ice (or as Dr. *Fulk* observes:) it is a hot Vapor in the middle Region of the Air, and by the cold thereof is condensed into a Cloud, which falling down, is by suddain cold of the Lowest Region congealed into Hail: The fashion of Hail is for the most part round, especially when it is generated in the middle Region of the Air; but being square or Three cornered, it is generated near the Earth.

The

The moſt uſual times of the Year for Hail, are *April* and *October*, becauſe then there wants neither hot Vapours to reſiſt the Cold, nor ſufficient Cold to harden the drops of Rain from whence it proceedeth; Whereas in Winter there wants hot Vapors, and in Summer the Air is too hot to congeal the drops of Rain as they fall down: Moreover *Pliny* ſaith, that Hail is ſooner reſolved into Water then Snow; which is, becauſe it is more ſpeedily generated; and yet in the Night time Hail ſeldome falls becauſe there are no hot Vapors then to be drawn up.

Of Froſt and Dew.

FRoſt (and Dew being partly of the ſame Matter) is a Cold and Moiſt Vapour, drawn up in the Day time by the heat of the Sun into the Lower Region of the Air; where by the coldneſs of the Night it is condenſed into water, and diſtilleth down upon the Earth: And if by the means of Cold it be congealed, it is called Froſt. Beſides this common Dew, there are other ſorts of ſweet Dews, One kind thereof is called *Manna*, which is white like Sugar, being generated of thick and clammy Vapours, and this falleth only in the Eaſtern parts of the World. But as for that *Manna* which GOD Rained to the *Iſraelites*, it was all together Miraculous. Again, there falleth here in *England* another ſort of ſweet Dew, commonly known by the Name of Mil-Dew, which is as ſweet as Honey, and is drawn out of ſweet Herbs and Flowers. Laſtly, there is a bitter kind of Dew that falleth upon Herbs, which is a Terrene exhalation, and remaineth upon them like Bran or Meal after the moiſture is exhaled; and this kind of Dew killeth Herbs.

A plain and easie Table shewing the true Interest due upon any Sum of Money from five Shillings to an Hundred Pounds, for a Year or under, after the rate of Six Pounds in the Hundred.

		1 month.			3 months			6 months			9 months			A Year.		
		sh.	p.	q.	sh.	p.	q.	sh.	p.	q.	sh.	p.	q.	sh.	p.	q.
Shil.	5	0	0	1	0	0	3	0	1	3	0	1	2	0	3	2
	10	0	0	2	0	1	3	0	3	2	0	5	0	0	7	0
	15	0	0	3	0	2	2	0	5	1	0	8	2	0	10	2
Pounds.	1	0	1	0	0	3	2	0	7	0	0	10	2	1	2	1
	2	0	2	1	0	7	0	1	2	1	1	9	1	2	4	2
	3	0	3	2	0	10	2	1	9	1	2	7	3	3	6	3
	4	0	4	3	1	2	1	3	4	2	3	6	3	4	9	0
	5	0	6	0	1	6	0	3	0	0	4	6	0	6	0	0
	6	0	7	0	1	9	2	3	7	0	5	4	2	7	2	1
	7	0	8	1	2	1	0	4	2	1	6	3	1	8	4	2
	8	0	9	2	2	4	2	4	9	1	7	1	3	9	6	3
	9	0	10	3	2	8	1	5	4	2	8	0	3	10	9	0
		po.	sh.	p.	po.	sh	p	po.	sh.	p	po.	sh.	p.	po	sh.	p.
Tens of Pounds.	10	0	1	0	0	3	0	0	6	0	0	9	0	0	12	0
	20	0	2	0	0	6	0	1	2	0	0	18	0	1	4	0
	30	0	3	0	0	9	0	1	8	0	1	7	0	1	16	0
	40	0	4	0	0	12	0	2	4	0	1	16	0	2	8	0
	50	0	5	0	0	15	0	2	10	0	2	5	0	3	0	0
	60	0	6	0	0	18	0	2	16	0	2	14	0	3	12	0
	70	0	7	0	1	1	0	3	2	0	3	3	0	4	4	0
	80	0	8	0	1	4	0	3	8	0	3	12	0	4	16	0
	90	0	9	0	1	7	0	3	14	0	4	1	0	5	8	0
	100	0	10	0	1	10	0	4	0	0	4	10	0	6	0	0

Find the Principal in the first Column, and in the other you have the Interest due for One, Three, Six, Nine, or Twelve months.

Of

Of Weights and Measures.

Of *Troy* Weight.

24 Grains	make	1 Peny w.
20 Peny weig.	make	1 Ounce.
12 Ounces	make	1 pou. *Troy*

Apothecaries Weight.

20 Grains	make	1 Scruple.
3 Scruples	make	1 Dram.
8 Drams	make	1 Ounce.
12 Ounces	make	1 Pound.

Of *Averdupois* Weight, a Pound whereof is equal to 14 Ounces, 12 peny weight *Troy*; by which Weight is weighed any thing which beareth the name of Garbel in this kind of weight

16 Drams	make	an Ounce.
16 Ounces	make	a Pound.
28 Pound	make	1 Quarter.
4 Quarters	make	1 H or 112
20 Hundreds	make	1 Tun.

Of Liquid Measure.

2 Pints	make	1 Quart.
2 Quarts	make	1 Pottle.
2 Pottles	make	1 Gallon
8 Gallons	make	1 Firkin of Ale, Sope, Herrings.
9 Gallons	make	1 Firkin of Beer.
10 Gall. ½	make	1 Firkin of Salmon or Eels.
2 Firkins	make	1 Kilderkin
2 Kilderkins	make	1 Barrel.
42 Gallons	make	1 Tierce of Wine.
63 Gallons	make	1 Hogshead
2 Hogsheads	make	1 pipe, Butt.

Dry Measure.

2 Gallons	make	1 Peck.
4 Pecks	make	1 Bushel land measure.
5 Pecks	make	1 Bushel wat. measure.
8 Bushels	make	1 Quarter.
4 Quarters	make	1 Chalder.
5 Quarters	make	1 Wey.

Long Measure.

3 Barly Corns	make	1 Inch.
12 Inches	make	1 foot.
3 feet	make	1 Yard.
3 feet 9 Inch.	make	1 Ell.
6 feet	make	1 fathom.
5½ yards and ¼	make	1 Pole.
40 Poles	make	1 furlong.
8 furlongs	make	1 Eng. mile

Land Measure.

1 pole in breadth and 40 in length make a Rood of Land.

4 Roods make an Acre, which contains 160 square pole.

Cloath Measure.

4 Nails	make	1 Quarter.
4 Quarters	make	1 Yard.
5 Quarters	make	1 Ell.
3 Quarters	make	1 Ell *Flemish*

A Table shewing how many Inches in Length makes one Foot of Timber, according to the Compass of any Round Piece of Timber.

The Compass of the Tree in Inches.	In.	parts.	Com.	In.	parts	Com.	In.	parts
10	217	15	40	13	572	70	4	432
11	179	46	41	12	916	71	4	308
12	150	80	42	12	319	72	4	198
13	128	49	43	11	744	73	4	78
14	110	79	44	11	211	74	3	965
15	94	312	45	10	723	75	3	861
16	84	822	46	10	262	76	3	760
17	75	137	47	9	830	77	3	663
18	67	20	48	9	425	78	3	569
19	60	151	49	9	44	79	3	479
20	54	286	50	8	686	80	3	393
21	49	228	51	8	349	81	3	310
22	44	865	52	8	30	82	3	230
23	40	904	53	7	730	83	3	152
24	37	690	54	7	447	84	3	78
25	34	743	55	7	178	85	3	6
26	32	122	56	6	924	86	2	936
27	29	787	57	6	684	87	2	869
28	27	697	58	6	455	88	2	804
29	25	820	59	6	238	89	2	742
30	24	127	60	6	30	90	2	681
31	22	596	61	5	836	91	2	622
32	21	206	62	5	649	92	2	566
33	19	936	63	5	471	93	2	511
34	18	784	64	5	301	94	2	458
35	17	736	65	5	140	95	2	406
36	16	755	66	4	985	96	2	356
37	15	862	67	4	837	97	2	307
38	15	38	68	4	696	98	2	261
39	14	276	69	4	561	99	2	216
						100	2	171

The ule of the Table.

Girt the Piece about, then look the length of that Girt under the title Com. and against it is the length of a Foot solid in Inches and parts of Inches.

Example.

Suppose a piece of Timber be 80 Inches about, then look 80 under the title Com. and against it in the next Column toward the right hand is 3 Inch. 8 and 393 decimal parts of an Inch, (that is 393 thousand parts, supposing the Inch to be divided into 1000 parts) for the length of a Foot.

For Square Timber.

Divide always 1728. (the Cubick inches in a foot solid) by the Content at the end, and the Quotient shews the length of a foot solid in Inches.

Example.

Let a piece of Timber be 12 Inches broad and 10 Inches deep at the end, and then the Content will be 120 Inches, which dividing 1728 the Quotient is 14 Inches, and $\frac{48}{120}$ parts for the length of a foot solid.

For Boards.

Divide always 144 (the Inches in a foot square) by the breadth, and the Quotient shews the length of a foot square in Inches.

Example.

If a board be 16 Inches broad, then 144 divided by 16 the Quotient is 9 Inches for the length of a foot according to that breadth.

For Circles.

If the Circumference be given, multiply it by it self, and then by 7, the last product divide by 88, and the Quotient shews the Content: if the Diameter be onely given, multiply it by it self, and then by 11 the last product divide by 14 and the Quotient shews the Content.

A Table of the hour and minute of Sun-rising every second day.

D.	Januar.		Februa.		March		April		May		June	
	ho.	mi.	ho.	mi.	ho.	mi.	ho.	mi.	ho	mi.	ho.	mi.
2	8	4	7	15	6	16	5	14	4	21	3	46
4	8	1	7	11	6	12	5	10	4	17	3	45
6	7	58	7	7	6	8	5	6	4	14	3	44
8	7	56	7	3	6	4	5	2	4	11	3	43
10	7	53	6	57	6	0	4	58	4	7	3	43
12	7	51	6	53	5	56	4	54	4	5	3	43
14	7	48	6	50	5	52	4	50	4	2	3	43
16	7	45	6	46	5	48	4	46	4	0	3	44
18	7	43	6	42	5	44	4	43	3	58	3	45
20	7	40	6	38	5	40	4	39	3	56	3	46
22	7	37	6	34	5	36	4	35	3	54	3	47
24	7	33	6	30	5	32	4	32	3	52	3	48
26	7	29	6	26	5	29	4	29	3	50	3	49
28	7	25	6	22	5	25	4	25	3	48	3	50
30	7	21	0	0	5	21	4	22	3	47	3	52

D.	July		August		Septem.		Octob.		Nov.		Decem	
	ho.	mi.	ho.	mi.	ho	mi.	ho	mi.	ho	mi.	ho.	mi
2	3	54	4	39	5	39	6	43	7	37	8	15
4	3	56	4	43	5	42	6	45	7	40	8	15
6	3	58	4	46	5	46	6	49	7	44	8	16
8	4	0	4	50	5	50	6	52	7	47	8	17
10	4	3	4	54	5	54	6	56	7	51	8	17
12	4	6	4	58	5	58	7	0	7	54	8	17
14	4	8	5	2	6	2	7	4	7	57	8	17
16	4	11	5	6	6	6	7	8	7	59	8	16
18	4	15	5	10	6	11	7	12	8	1	8	15
20	4	18	5	14	6	15	7	15	8	3	8	15
22	4	21	5	18	6	20	7	19	8	5	8	14
24	4	24	5	21	6	24	7	22	8	7	8	12
26	4	27	5	25	6	28	7	25	8	9	8	10
28	4	30	5	29	6	32	7	29	8	11	8	9
30	4	34	5	32	6	36	7	32	8	13	8	7

Seek the day on the side; and right against it, in every month, you have the hour and minute of the Sun-rising.

Look how many minutes the Sun rises after 3, 4, 5, 6, 7, 8. So many he sets before 9, 8, 7, 6, 5, 4.

A Table of Annuities and Reversions.

What 1 pound to be paid any number of years hence, under 21, is worth in ready money.				What 1 lb Annuity to continue any time under 31 years is worth in ready money at 6 per cent.				What 1 pound will amount to at any time under 21 years reckoning Interest upon Interest.			
	lb.	sh.	d.	q.	lb.	sh.	d.	q.	lb.	sh.	d.	q.
1	18	10	2	2	0	18	10	2	1	1	2	2
2	17	9	2	1	1	16	8	0	1	2	5	3
3	16	9	2	2	2	13	5	2	1	3	9	3
4	15	10	0	0	3	9	3	2	1	5	3	0
5	14	11	1	1	4	4	3	0	1	6	9	0
6	14	1	1	1	4	18	4	1	1	8	4	2
7	13	3	2	2	5	11	7	3	1	10	0	3
8	12	6	2	2	6	4	2	1	1	11	10	2
9	11	10	0	0	6	16	0	1	1	13	9	2
10	11	2	0	0	7	7	2	1	1	15	9	3
11	10	6	2	2	7	17	8	3	1	17	11	2
12	9	11	1	1	8	7	8	0	2	0	3	0
13	9	4	2	2	8	17	0	2	2	2	7	3
14	8	10	0	0	9	5	10	3	2	5	2	2
15	8	4	0	0	9	14	3	0	2	7	11	1
16	7	10	2	2	10	2	1	2	2	10	9	2
17	7	5	0	0	10	9	6	2	2	13	10	2
18	7	0	0	0	11	16	6	2	3	17	1	0
19	6	7	1	1	11	3	2	0	3	0	6	0
20	6	2	3	3	11	9	4	3	3	4	1	3
21	5	10	2	2	11	15	3	1	3	7	11	3
22	5	6	2	2	12	0	10	0	By this Table you may readily find the increase of any other summ for such a number of years: for if it come to so much then such supposed sum will come to 3 times as much &c.			
23	5	2	3	3	12	6	0	3				
24	4	11	1	1	12	11	0	0				
25	4	7	2	2	12	15	8	0				
26	4	4	3	3	13	0	0	3				
27	4	1	3	3	13	4	2	2				
28	3	11	0	0	13	8	1	3				
29	3	9	1	1	13	11	0	3				
30	3	5	3	3	13	13	8	2				

The

The use of the Tables.

THE first Table shewing the decrease of one Pound yearly at 6 *per cent.* may be used in buying Reversions, &c. As suppose a parcel of Land or House or the like, whose fee simple or real worth is 200^{lb}, and it be Mortgaged or Leased out for 20 years, then what is the Reversion thereof after that 20 years worth in ready Money? for answer, I look against 20 years and find that the Reversion of one Pound after 20 years is worth but 6^{sh} 2^{d} 3^{q}, then if 1^{lb} be worth 6^{sh} 2^{d} 3^{q}, 200^{lb} will be 200 times as much, which will be 62^{lb} 5^{sh} 10^{d} for the value of the reversion required.

The second Table may be used in buying of Leases, &c, as suppose I am to buy a Lease of 10^{lb} *per annum*, for 21 years, what ready money may I give at the rate of 6^{lb} *per cent. per ann.* for answer, I look against 21 years and find that 1^{lb} annuity to continue 21 years is worth in ready money 11^{lb} 15^{sh} 3^{d} 1^{q}, then I say if 1^{lb} annuity for 21 years be worth 11^{lb} 15^{sh} 3^{d} 1^{q}, then 10^{lb} annuity for the same time will be worth 10 times as much, which will be 117^{lb} 12^{sh} 8^{d} 2^{q}, for the value of the Lease required.

The third Table may be used in putting out money for a certain time at 6^{lb} *per cent. per ann.* as suppose 20^{lb} be let out for 7 years what will it amount to in that time, reckoning Interest upon Interest? For answer, I look against 7 years, and find that 1^{lb} will amount to in that time 1^{lb} 10^{sh} 0^{d} 3^{q}, then I say 20^{lb} will amount to 20 times as much, which will be 30^{lb} 16^{sh} 3^{d}.

The use of the following Table is plain and easie, for suppose I am to find *Easter* this present year 1691. then having found the Golden Number 1, and Dominical Letter D at the bottom of the Table, I look under the Dominical Letter D at the top, and right against the Golden Number 1 at the left hand, and in the common angle of meeting I find *April* 12 for *Easter* Day.

A Table shewing how to find Easter for ever by the help of the Golden Number and Dominical Letter.

G.N.	A	B	C	D	E	F	G
i	*Apr.* 9	10	11	12	6	7	8
ii	*Mar.* 26	27	28	29	30	31	*apr.* 1
iii	*Apr.* 16	17	18	19	20	14	15
iv	*Apr.* 9	3	4	5	6	7	8
v	*Mar.* 26	27	28	29	21	24	25
vi	*Apr.* 16	17	11	12	13	14	15
vii	*Apr.* 2	3	4	5	6	*mar.* 31	*apr.* 1
viii	*Apr.* 23	24	25	19	20	21	22
ix	*Apr.* 9	10	11	12	13	14	8
x	*Apr.* 2	3	*mar.* 28	29	30	31	*apr.* 1
xi	*Apr.* 16	17	18	19	20	21	22
xii	*Apr.* 9	10	11	5	6	7	8
xiii	*Mar.* 26	27	28	29	30	31	25
xiv	*Apr.* 16	17	18	19	13	14	15
xv	*Apr.* 2	3	4	5	5	7	8
xvi	*Mar.* 26	27	28	22	23	24	25
xvii	*Apr.* 16	10	11	12	13	14	15
xviii	*Apr.* 2	3	4	5	*mar.* 30	31	*apr.* 1
xix	*Apr.* 23	24	18	19	20	21	22

Mean of our Lord	1691	1692	1693	1694	1695	1696	1697
G.N.	1	2	3	4	5	6	7
D.C.	D	[illegible]	A	G	F	ED	C

The Names of the principal Fairs in England, *as they have heretofore been set forth by others, and are now Corrected and continued for the common good.*

January.

THE 5 day at Hicesford in Lancashire, the 6 day at Salisbury, Tuesday after at Melton-Mowbray, the Thursday after at Banbury: the third Tuesday in January at Potton: the 25 at Gravesend, Builfoll, Churchinford, Northallerton in Yorkshire every Wednesday from Christmas till June.

February.

The 1 day at Bromley in Lancashire, the 2 at Reading in Barkshire, at Maidston, Bicklesworth, Bicklesfield, Bark, Lyn, Bugworth: the 6 day at Stafford for 6 days: the 14 at Oundle, Feversham: 24 at Henley upon Thames, Baldock: On Ashwednesday at Royston, Dunstable, Eaton, Tamworth, Tunbridg, Lichfield, Exeter, Crewell, the first Thursday in Lent at Banbury: the 28 at Stamford on Horse Fair.

March.

The 3 day at Bromel-brakes in Norfolk, at Bedford, at Oakham: 12 at Alsome in Norfolk, Sudbury, Woodburn, Stanford, at Wye: 13 at Bodwin in Cornwall: 20 at Durham, Alesbury: Munday before our Lady-day at Kendal, at Wisbich: 25 at Huntington, Northampton, Malden, Ashwell in Hartfordshire, Newcastle, Oney, S. Albans, Midlent Saturday at Saffron-Walden: Palmsunday eve at Wisbich, Worcester, Pomfret, on Goodfriday at Norwich, the Tuesday before Easter at Potton.

April.

Easter Munday at Oney in Bedfordshire, Gainsborough, Easter Tuesday at Daintry in Northamptonshire, Godmanchester, Schole in Norfolk, S. Edmunds-bury. On Wednesday at Wellingborough in Northamptonsh. On Friday

in the same week at Darby. On Saturday at Bicklesworth: 2 day at Hitchin, at Rochford, Northfleet: 5 at Wallingford: 7 at Derby, 9 at Billingsworth, Bicklesworth: the 22 at Stabford, 23 at Ipswich, Harbin in Norfolk, Northampton, Sapsar in Hartfordshire, Charing, Hinningham, Tamworth, Bury in Lancashire. St Pombs in Cornwal, Ampthill, Chichester, Engfield, Gilford, Bishops-Hatfield: the 25 at Buckingham, at Bourn in Lincolns. at Colebrook, Dunmow in Essex, Darby, Oakham in Rutlandshire: the 29 at Tenderden in Kent, Cleet. 30 at Beverly a week together.

May.

The 1 day at Swaffam, Haveril in Essex, Laytonbuzzard in Huntingtonshire, Rippon in Yorks. Reading, Maidstone, Chelmford, Leicester, Litchfield, Lexfield in Suffolk, Stow, Stansted, Tuxford in the Clay, the 3 day at Elstow in Bedfordshire, Noneaton in Warwicks. Thetford in Norfolk, Waltham Abby, Hinningham, Rochdale, Bramyard, the 6 at Almesbury, at Ashford, 7 at Newton in Lancashire, Beverly, Oxford, Bath: the 8 at Maidstone: the 13 at Rochester, Dunstable, Magfield in Suffolk. On Rogation Munday at Reach. On Ascension day at Thaxted, Beverly, Rippon, Sudminster, Bishopstratford, S. Neots, Wickham in Lancashire, Middle-wich in Cheshire, Chappel-Frith in Darbish. On Whitsun-even at Skipton in Craven. On Whitsun-Munday at S. Ives, Rygate in Surry, Bicklesworth, Bradford, Agnumsham in Buckinghamsh. On Whitsun-Tuesday at Newmarket. On Wednesday at Royston. Thursday at Owndle in Northamptons. 26 at Lenham, 29 at Crainbrook.

June.

Trinity-even at Rowel, Kendal. On Corpus Christi day at Banbury, Bishopstratford, S. Neots, Coventry, Newbury. The 3 at Alesbury: 9 at Maidstone. 11 at Breme in Norfolk, Bardfield in Essex. 15 at Hadstock, 23 at S. Albans, Deerham in Norfolk, Shrewsbury, 24 at Halsen in Suffolk, Barnwel by Cambridge, Bedford, Colchester, Hartford,

Hartford, Leicester, Rumford, Reading, Windsor, Halifax, York, Beverly, Hastingden, 26 at [illegible] Derby: 27 at Burton on Trent, Folstone, 28 at S. Powls in Cornw: 29 at Peterborough, Athwel, Sudbury, Stebbing in Essex, Bennington in Hartfordshire.

July.

The first Tuesday at Parton. The 1, 2, 3 days at Congleston in Cheshire, 7 at Royston, Burnewood. The Munday after at Fodringham, at Canterbury: the 13 at Partney, 17 at Stevenage: 20 at Uxbridge, Coolidge, Woodstock. The 22 at Ickleton, Bicklesworth, Norwich, Colchester, Newark upon Trent, 29 at Audley-end by Walden, Readings, Baldock, Darby, Dover, Brith, Ipswich, Stamford.

August.

The first day at Bedford, S. Neots, Dunstable, Feversham, Wisbich, Bicklesworth, Thaxted: the 6 at Peterborough: the 10 at Blackmore, Harply in Norfolk, S. Ives, Bedford, Banbury, Farnham, Brainford, Owndle: the 13 at Cambridge, Huntingdon, Dunnow, Luton, Northampton: the 24 at London, Sudbury, Norwich, Oxford, Northallerton, Dover, Beggers-bush, Burton, the 28 at Ashford, Dainery,: the 29 at Halfon in Suffolk, Harlow-Bush in Essex, Watford.

September.

The first day at S. Giles in the Bush. On Thursday and Friday before the 8 day at Sandbach in Cheshire, 7, 8, 9, 10 at Woodbury-hill in Dorsetshire, 7 at Ware, 8 at Huntington, Bury in Lancashire, Partney, Wakefield, Northampton, Sturbridge fair begins: The 12 at Woolpit in Suff. 14 at Rippon, Waltham-Abby, Chesterfield in Darbishire, Richmond: the 21 at Marlborough, Bedford, Baldock, S. Edmundsbury, Holden in Holderness, Braintry, Bracking, Maiden, Malden, Mildnal: the 29 at S. Ives, Basingstoke, Marketdeeping, Shelford in Bedfordsh. Bishopstratford, Malden, Stow in Lincolnsh. S. Albans, Canterbury, Leicester, Newbury, Westchester, Weymer for 7 days: Thursday after at Banbury.

October.

October.

The 2 day at Salisbury, the 6 at Hawchurch Hampst. Minchinstone, Coolidge, Gainsworthy, Lyndhurst, Parish by Ringwood, the 8 at Bishopstratford, Hatherdough, Gainsborough: the 13 at Winsor, Colchester, Gravesend, Hitchin, Royston: the Tuesday before S. Luke at Potton: 18 at Ely, Bishop Hatfield, Barnet, Banbury, Thrift, Burton upon Trent, Wellinborough: the 21 at Saffron Walden, Coventry: the 23 at Bicklesworth, 28 at Newmarket, Hartford, Oxford, Dis, Wakefield, Stamford, Richdale, in Lancash.

November.

The 1 day at Chelmsford, 2 at Epping, Kingston upon Thames, Padanhaston in Suffolk, 6 at Newportpond, Bedford, Hartford, 11 at Lodden in Norfolk, Lenton in Nottinghamshire, Hempton, Fockingham, Bridgestock, Marlborough, the 17 at Spalding in Lincolnsh. Lincoln, Harlow, Hide, Northampton: the 25 at Horsham in Kent: the 30 at S. Edmundsbury, Ingerston in Essex, Heath, the 25 at Sandwich, the 30 at Baldock, Barford, Kolingborough, Maidenhead, Wahrington, Rochester, Wakefield, York.

December.

The first day at Tuxbury, the 5 at Pluckley, the 9 at S. Neots, at Woodstock, Exeter, Spalding, Norwich in Cheshire, Seven-oak in Kent, Arundel, Grantham: the 7 at Sandhurst, the 28 at Northampton, Clitheral in Lancashire, Huntington, Lichfield, at Malpas in Cheshire: the 29 at Canterbury, Salisbury.

There is lately published *Thesaurus Linguæ Sanctæ Reseratus*, &c. being a Compendiatial *Hebrew Lexicon*, or *Dictionary*, in which all the *Hebrew Lexicons* are succinctly comprehended, and the whole *Hebrew Concordance* of every word of the *Hebrew Bible* gratefully ordered, &c.

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FINIS.